

What is claimed is:

1. A method of cleaning a photoactive and/or hydrophilic surface, comprising:
contacting the surface with conditioned water.
2. The method of claim 1, wherein the conditioned water has a specific conductance of less than or equal to 200 micro-ohms.
3. The method of claim 1, wherein the conditioned water is obtained by:
conducting non-conditioned water through an ion exchange bed.
4. The method of claim 3, wherein the ion exchange bed is a multi-bed exchange column.
5. The method of claim 3, wherein the ion exchange bed is a mixed resin bed.
6. The method of claim 1, wherein the contacting step is practiced by spraying conditioned water onto the surface.
7. The method of claim 1, wherein the contacting step is practiced by conducting the conditioned water through a water-fed pole onto the surface.
8. The method of claim 1, wherein the conditioned water is obtained by:
connecting a cleaning assembly to a source of non-conditioned water comprising inorganic material, the cleaning assembly comprising an ion exchange bed; and

selectively conducting the non-conditioned water through the ion exchange bed to remove at least some of the inorganic material.

9. The method of claim 8, wherein the cleaning assembly includes:

a housing; and

an ion exchange bed removably held in the housing.

10. The method of claim 1, including contacting the surface with a cleaning agent solution, the cleaning agent solution comprising at least one of a surfactant and a complexing agent.

11. The method of claim 10, wherein the cleaning agent solution is obtained by:

connecting a cleaning assembly to a water source, the cleaning assembly including a cleaning agent comprising at least one of a surfactant and a complexing agent; and

selectively conducting conditioned water through the cleaning agent to provide the cleaning agent solution.

12. The method of claim 11, wherein the cleaning assembly includes a housing removably connected to the water source.

13. The method of claim 10, wherein the complexing agent includes at least one material selected from amino acids, carboxylic acids, alkyldiaminetetraacetic acids, oxoacids of phosphorous, oxoacids of sulfur, salts of any of the above, sugars, and any mixtures containing any one or more of the above.

14. The method of claim 1, including contacting the surface with a material comprising hydrofluoric acid.

15. The method of claim 3, including adding a fragrance to the conditioned water.

16. A method of cleaning a surface, comprising:
contacting the surface with a cleaning agent solution; and
contacting the surface with conditioned water.

17. The method of claim 16, wherein the surface is at least one of photoactive, photocatalytic, photoactively hydrophilic, or hydrophilic.

18. The method of claim 16, wherein the cleaning agent solution includes at least one complexing agent selected from amino acids, carboxylic acids, alkyldiaminetetraacetic acids, oxoacids of phosphorous, oxoacids of sulfur, salts of any of the above, sugars, and any mixtures containing any one or more of the above.

19. The method of claim 16, wherein the cleaning agent solution includes at least one surfactant.

20. The method of claim 16, wherein the cleaning agent solution is obtained by:

connecting a cleaning assembly to a water source, the cleaning assembly including a cleaning agent; and
selectively conducting water through the cleaning agent.

21. The method of claim 16, wherein the conditioned water has a specific conductance of less than or equal to 200 micro-ohms.

22. The method of claim 16, wherein the conditioned water is obtained by:

conducting non-conditioned water through an ion exchange bed.

23. The method of claim 22, wherein the ion exchange bed is a multi-bed exchange column.

24. The method of claim 22, wherein the ion exchange bed is a mixed resin bed.

25. The method of claim 22, wherein the conditioned water is obtained by:

connecting a cleaning assembly to a non-conditioned water source, the cleaning assembly comprising the ion exchange bed; and

selectively conducting the non-conditioned water through the ion exchange bed to provide conditioned water.

26. The method of claim 25, wherein the cleaning assembly includes:

a housing removably connected to the water source; and

an ion exchange bed cartridge removably held in the housing.

27. The method of claim 16, including contacting the surface with the cleaning agent prior to the conditioned water, the cleaning agent comprising at least one of a surfactant and a complexing agent.

28. A method of cleaning a photoactive and/or hydrophilic surface, comprising:

providing conditioned water;

adding at least one cleaning agent to the conditioned water to form a cleaning agent liquid; and

contacting the cleaning agent liquid with the surface.

29. A device for cleaning a photoactive and/or hydrophilic surface, comprising:
a housing having an inlet and an outlet;
a first chamber located in the housing;
a flow passage extending through the housing between the inlet and the outlet; and
a selector valve configured to selectively place the flow passage in flow communication with at least one of the first chamber and the outlet,
wherein the first chamber includes an ion exchange bed.

30. The device of claim 29, wherein the housing includes a second chamber comprising a cleaning agent and the selector valve is configured to selectively place the flow passage in flow communication with at least one of the first chamber, the second chamber, and the outlet.

31. A device for cleaning a photoactive and/or hydrophilic surface, comprising:
a housing having an inlet and an outlet;
a first chamber and a second chamber located in the housing;
a flow passage extending through the housing between the inlet and the outlet; and
a selector valve configured to selectively place the flow passage in flow communication with the first chamber, the second chamber, neither chamber, or both chambers,
wherein the first chamber includes an ion exchange bed and the second chamber includes at least one cleaning agent.

32. The device of claim 31, wherein the cleaning agent includes at least one of a complexing agent and a surfactant.

33. The device of claim 32, wherein the complexing agent includes at least one complexing agent selected from amino acids, carboxylic acids, alkyldiaminetetraacetic acids, oxoacids of phosphorous, oxoacids of sulfur, salts of any of the above, sugars, and any mixtures containing any one or more of the above.

34. A device for cleaning a photoactive and/or hydrophilic surface, comprising:
means for contacting the surface with conditioned water.

35. A device for cleaning a surface, comprising:
means for contacting the surface with a cleaning agent solution; and
means for contacting the surface with conditioned water.

36. A cleaning solution, comprising:
conditioned water; and
at least one cleaning agent.

37. The cleaning solution of claim 36, wherein the cleaning agent includes at least one complexing agent and/or at least one surfactant.

38. The cleaning solution of claim 36, wherein the conditioned water has a specific conductance of less than or equal to 200 micro-ohms.

39. The cleaning solution of claim 37, wherein the at least one complexing agent is selected from amino acids, carboxylic acids, alkyldiaminetetraacetic acids, oxoacids of phosphorous, oxoacids of sulfur, salts of any of the above, sugars, and any mixtures containing any one or more of the above.

40. The cleaning solution of claim 37, wherein the at least one surfactant is selected from cationic, anionic, non-ionic, and amphoteric surfactants.